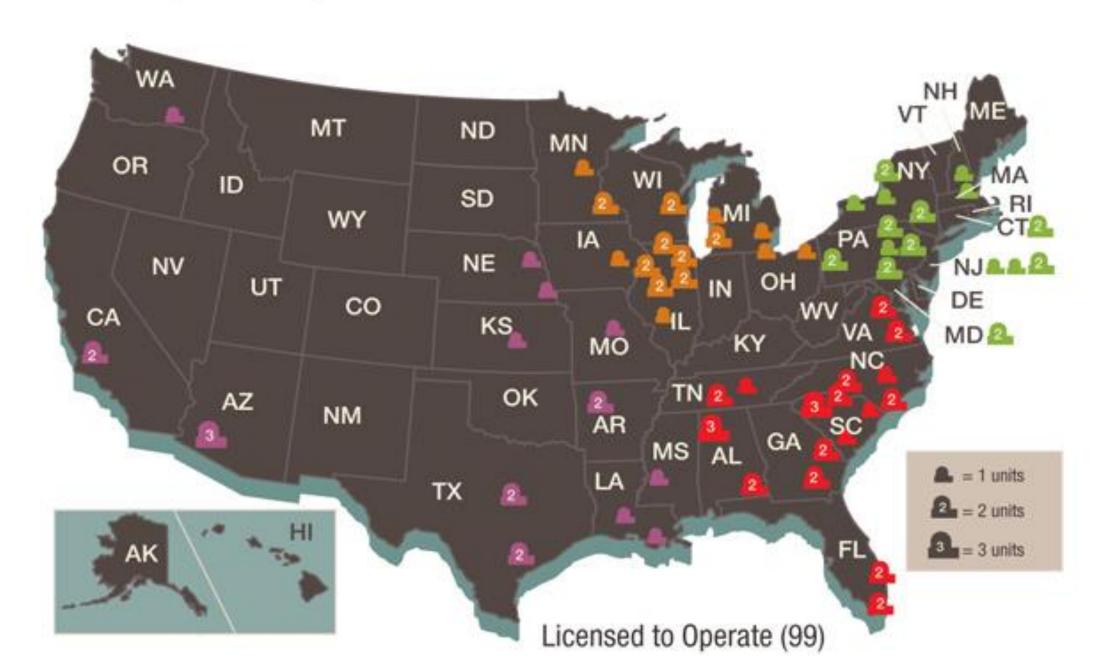
## Iowa Department of Homeland Security and Emergency Management

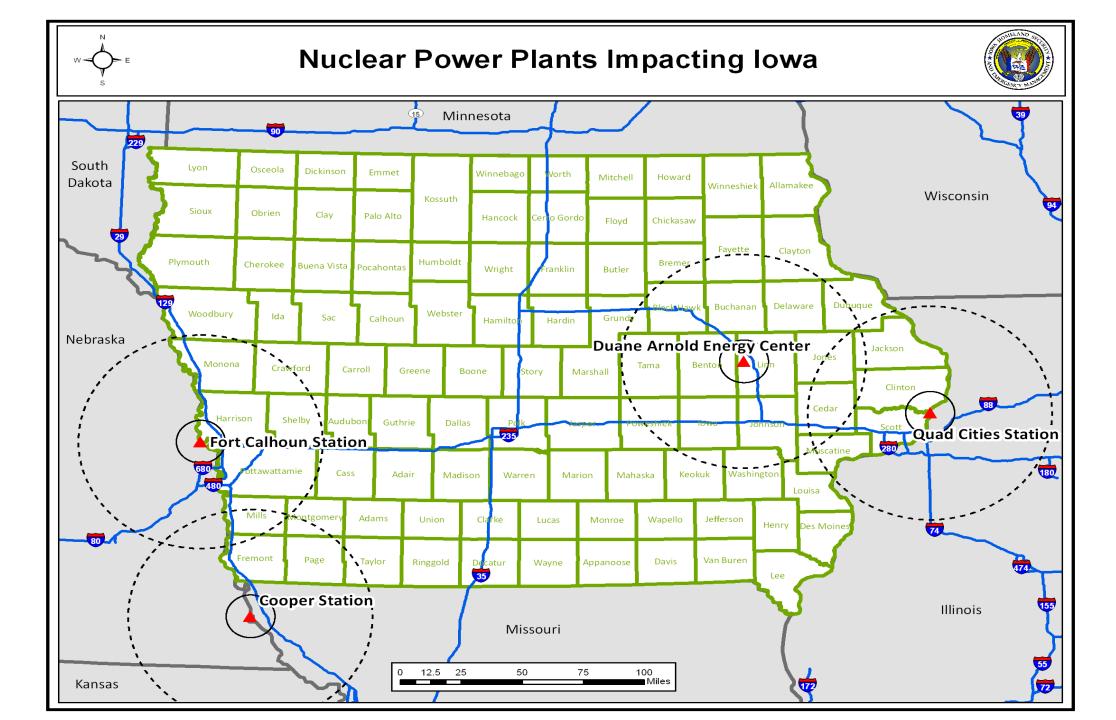
Radiological Emergency Preparedness (REP) Program



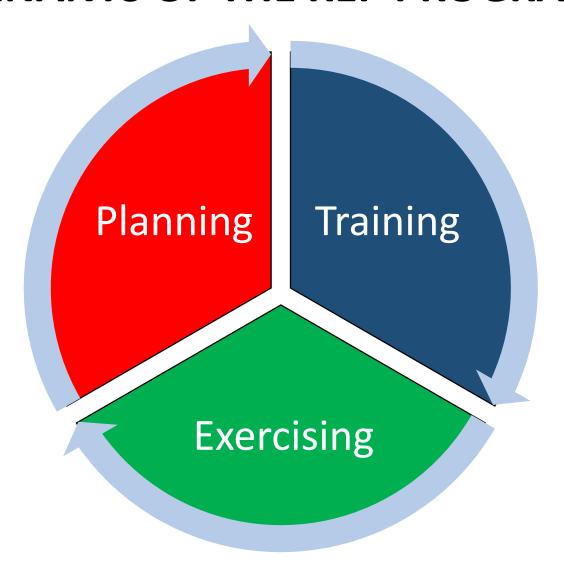


### U.S. Operating Commercial Nuclear Power Reactors





### **TENANTS OF THE REP PROGRAM**



### The REP Program

- Four full-time state staff
  - Site specialist model
  - State, local and private sector partnership
- Twelve distinct, integrated radiological response plans reviewed and approved annually
- Approximately 2,000 responders trained each year
- Equipment calibration, testing, and maintenance performed on over 4,800 units annually
- Minimum of twelve to fourteen exercises conducted each year

# State of Iowa Radiological Emergency Response Plan



Iowa Department of Homeland Security and Emergency Management

Mark Schouten

Homeland Security Advisor and

Emergency Management Director

### **Classifying An Emergency**

Criteria established by the Nuclear Regulatory Commission (NRC)

 Four Levels - Unusual Event, Alert, Site Area Emergency, General Emergency

 Level of classification drives off-site response activities and decision-making on behalf of public health & safety

### **Emergency Classification Levels**

#### **Unusual Event**

No threat to public safety Increased Awareness

#### Alert

No threat to public safety
Precautionary mobilization of response organizations

### **Site Area Emergency**

Full response activation
Precautionary actions for high risk populations

### **General Emergency**

Public Safety threatened
Protective actions for the
general public

### **Notification To The Public**

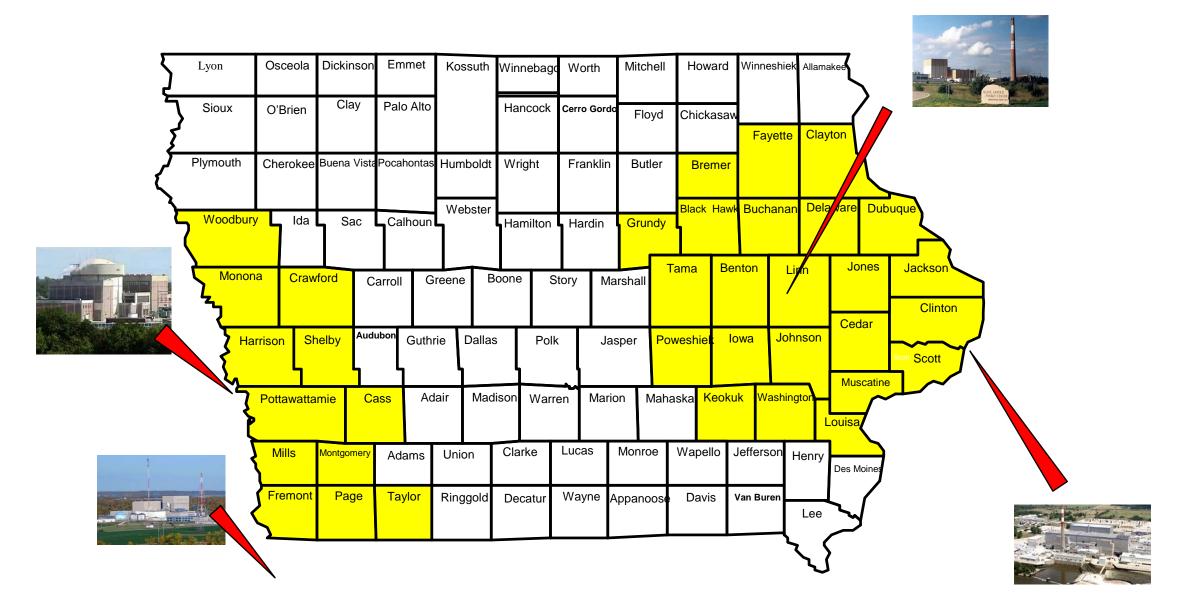
- Sirens
- Emergency Alert System
- Other Public Notification Systems
- National Weather Service
- Joint Information Center

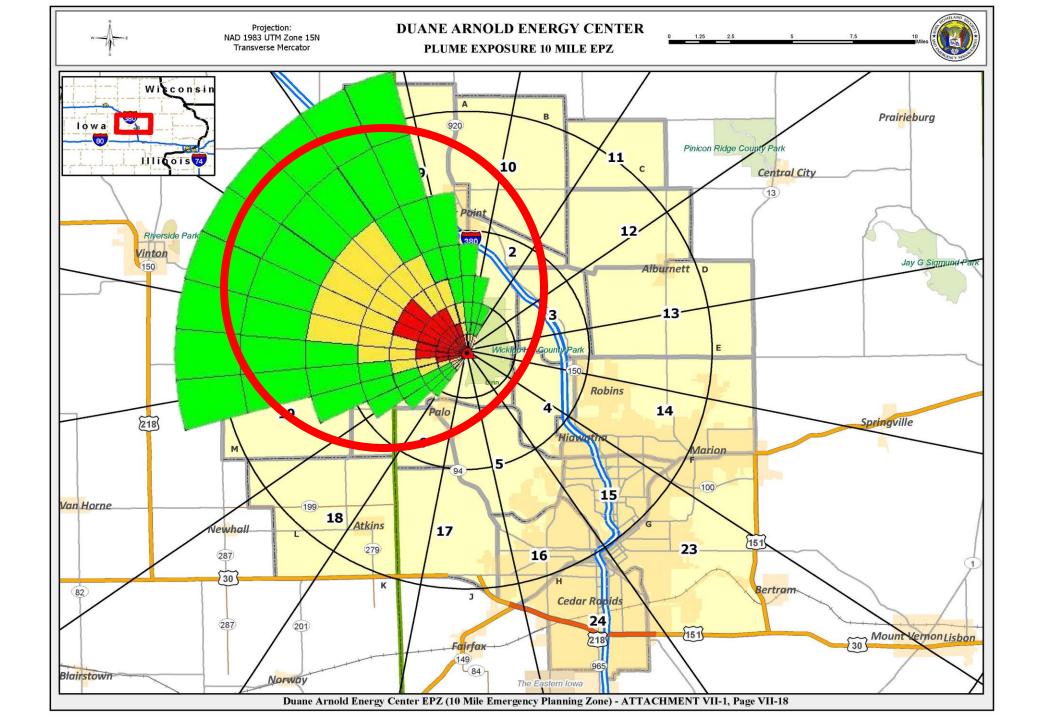


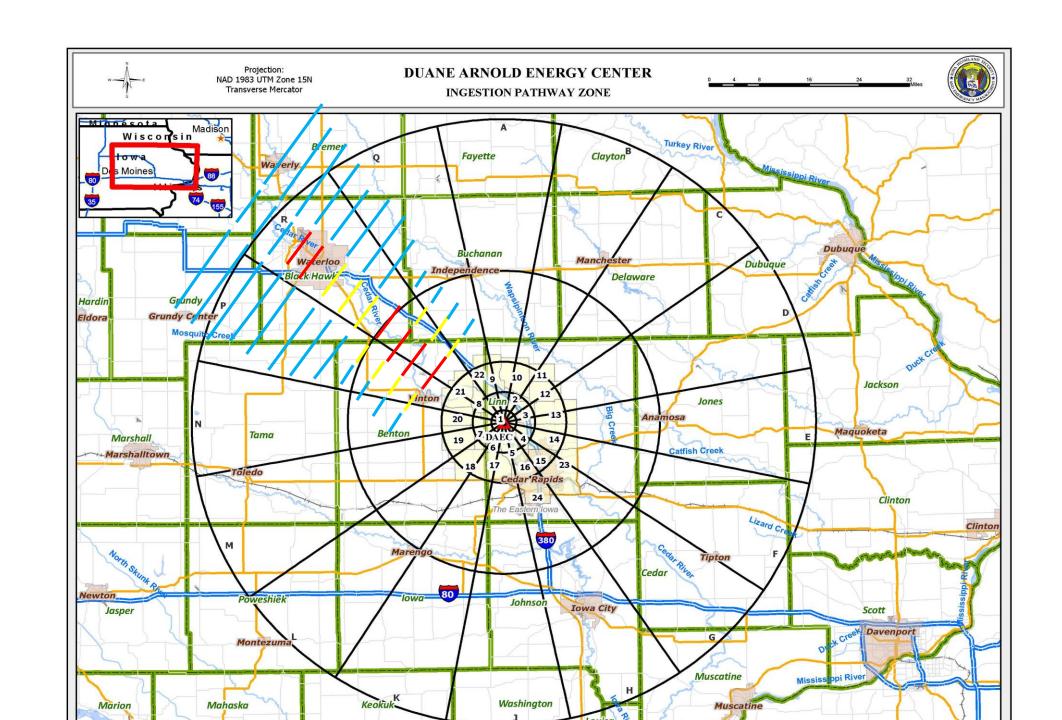
### Implementation of Protective Actions

- Agricultural Recommendations —— Dairy Animals on stored feed/water
- Special Population Considerations 
   Schools/Nursing Homes
- Sheltering
   Staying indoors
- Evacuation
   Locate outside the affected area
- Re-occupation of an area
- Re-Entry
   Temporary entry under controls
- Relocation
   Removal/Exclusion

### **Iowa Ingestion Pathway Counties**







### **Ingestion Considerations**

- Identify the land area possibility contaminated
- Develop and implement a radiological monitoring and sampling plan
- Perform laboratory analysis of samples
- Calculate exposures from various pathway (milk, water, food)
- Select and implement additional protective actions

### **Ingestion Pathway Emergency Protective Actions**

- Wear a protective mask when working outside
- Wear outer clothing to protect skin exposure
- Remove outer clothing before going indoors
- Wash hands before handling food

- Remove dairy animals from pasture, shelter them and place on protected feed/water
- Do not engage in cultivating, disking, or harvesting
- Restrict fishing to catch and release
- Delay slaughter of animals

### Recovery

- Radiological assessment of food and water
- Decontamination activities
- Disposal of radioactive water
- Restoration of public services
- Control of access to contaminated areas

- Security within contaminated areas
- Establishment of long-term radiological monitoring
- Medical follow-up for the potentially contaminated
- Establishment of social/human service programs

## STATE OF IOWA RADIOLOGICAL EMERGENCY INFORMATION

## FOR FARMERS, FOOD PROCESSORS, AND DISTRIBUTORS



## IMPORTANT INFORMATION PLEASE READ AND SAVE THIS BROCHURE January 2014

- This brochure provides emergency information for lowa farmers, food processors and food distributors located with 50 miles of a commercial nuclear power plant.
- Objective to prevent or minimize radiation contamination of food and food products
- Distributed through Iowa State
   Extension and Outreach

### What you need to know about.....

### Notification

Formal notice following General Emergency

Via Telephone, Alert Iowa, etc.

## What you need to know about.....

### Notification

Formal notice following General Emergency

Via Telephone, Alert Iowa, etc.

### Coordination

Daily conference calls with partners

Assistance with access for sampling activities

**Public Information Messaging** 

## What you need to know about.....

### Notification

Formal notice following General Emergency

Via Telephone, Alert Iowa, etc.

### Coordination

Daily conference calls with partners

Assistance with access for sampling activities

#### Resources

Federal and State sampling teams and radiological experts

State agency assistance (Governors Proclamation)

**Public Information** 

### What you <u>DO NOT</u> need to worry about......



**Evacuation/Sheltering** 



Dosimetry and/or Potassium Iodide (KI)



Immediate or direct threat to public health and safety



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